

STB7500C Management Software

User's Guide

version 3.20

Tuesday, May 27, 2006



Revision Table

DATA	VERSION	AUTHER
2006-4-21	2.00	Yingzi Zeng
2006-5-23	3.00	WangChao
2006-5-24	3.10	WangChao
2006-6-15	3.21	WangChao
2006-7-7	3.22	WangChao

Table of Contents

1	Introduction.....	4
2	Running of the program	4
3	Basic Operations	5
3.1	Set up compound video output.....	5
3.2	Set up HDMI output.....	5
3.3	Upgrade APP.....	6
3.4	Upgrade parameter documents.....	6
3.5	Set up play-list	6
4	StbMonitor commands.....	6
4.1	Parameter setting commands.....	6
4.1.1	Parameters	6
4.1.2	SETPARA	8
4.1.3	GETPARA.....	8
4.1.4	SAVEPARA	8
4.1.5	UPGRADEPARA.....	9
4.2	Upgrade commands.....	9
4.2.1	UPGRADELOADER.....	9
4.2.2	UPGRADEAPP.....	9
4.2.3	UPGRADEBOOT	10
4.2.4	UPGRADELOGO.....	10
4.2.5	UPGRADEFONT	10
4.3	Other commands	11
4.3.1	SHOWMSG	11
4.3.2	STATUS	11
4.3.3	REBOOT.....	11
4.3.4	OPENURL	12
4.3.5	VER.....	12
4.3.6	CLEAR.....	12
4.3.7	HELP.....	12
	Appendix A. Possible TV standards.....	13

1 Introduction

STB7500C management software StbMonitor is a command line program, it sends command to STB for operation of upgrade, setting operational parameter of STB, etc.

2 Running of the program

StbMonitor has 3 operation modes:

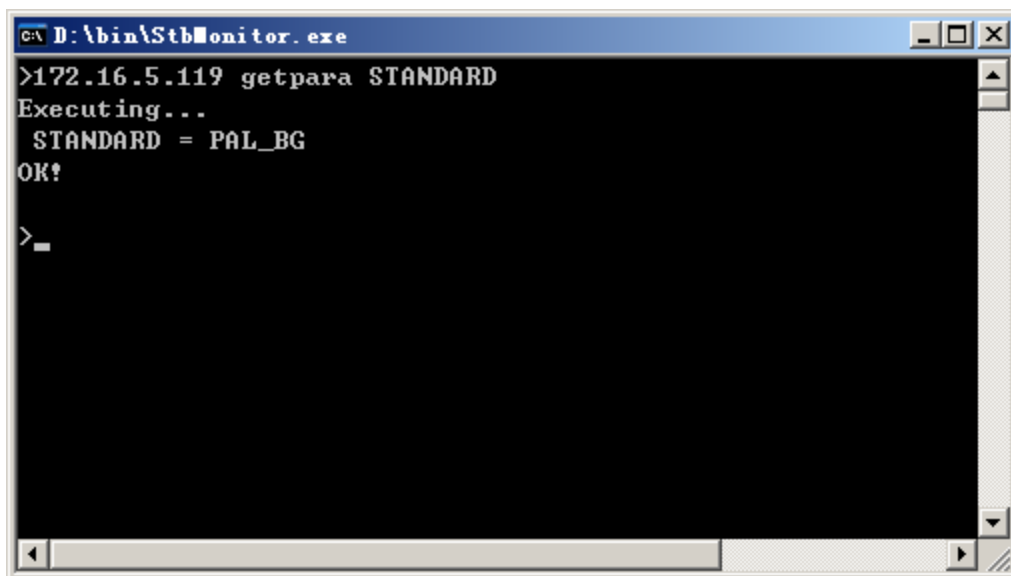
1. Running StbMonitor with no parameter.

After starting the program, ">" will be displayed on screen, command can be input after ">"

Command format: [xxx.xxx.xxx.xxx] cmd para

The IP address '[xxx.xxx.xxx.xxx]' in the command is IP address of STB to receive the command transmitted by unicast, (e.g. 172.16.5.201 GETPARA NETMODE), and receive the response from STB, the default setting is to send multicast command, with no acceptance of response from STB.

Figure 1.1 Picture of running StbMonitor.exe with no parameter



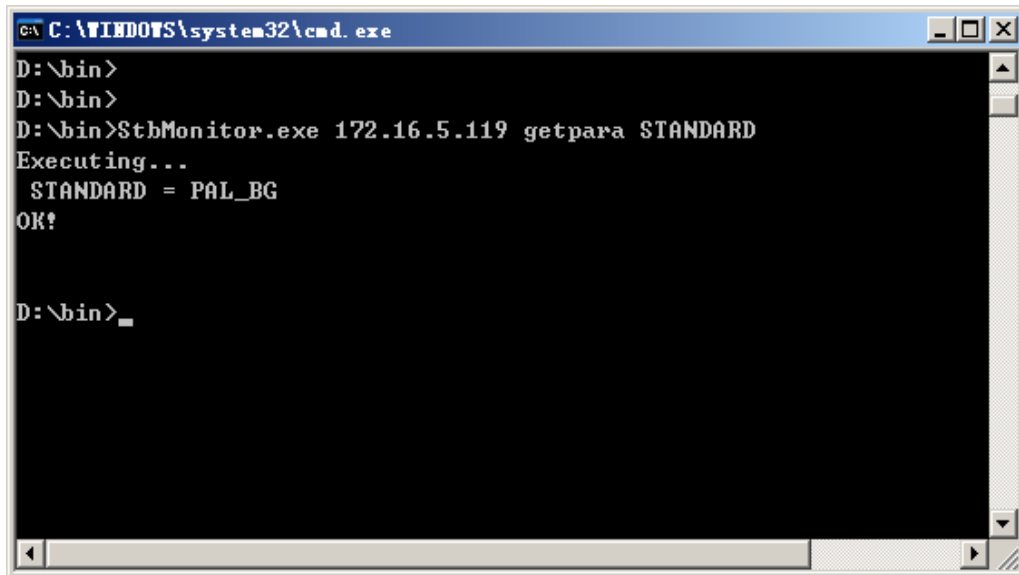
2. Running StbMonitor with parameter

Command format StbMonitor [xxx.xxx.xxx.xxx] cmd para

The IP address in the command is IP address of STB to receive the command transmitted

by unicast, (e.g. StbMonitor 172.16.5.201 GETPARA NETMODE), and receive the response from STB, the default setting is to send multicast command, with no acceptance of response from STB.

Figure 1.2 Picture of running StbMonitor.exe with parameter



```
C:\WINDOWS\system32\cmd.exe
D:\bin>
D:\bin>
D:\bin>StbMonitor.exe 172.16.5.119 getpara STANDARD
Executing...
STANDARD = PAL_BG
OK!

D:\bin>
```

3. Edit all commands into batch file

e.g. creating: cmd.bat, which includes:

StbMonitor 172.16.5.201 SETPARA DHCP 1

StbMonitor 172.16.5.201 UPGRADEAPP app.ip

Running cmd.bat will execute all the commands in the file.

3 Basic Operations

3.1 Set up compound video output

> 192.168.0.62 setpara standard PAL_BG /s

The most common standard of which are: “NTSC_M”, “PAL_60”, “PAL_M” etc.

About the detail of standard, please check out Appendix A.

3.2 Set up HDMI output

> 192.168.0.62 setpara standard HDMI_1080i60 /s

The most common standard of which are: “HDMI_720p60” etc.

About the detail of standard, please check out Appendix A.

3.3 Upgrade APP

```
> 192.168.0.62 upgradeapp app.ip
```

3.4 Upgrade parameter documents

```
> 192.168.0.62 upgradepara para.ip
```

3.5 Set up play-list

```
> 192.168.0.62 setplaylist 1 rtsp://192.168.1.1/ch1 /s
```

```
> 192.168.0.62 setplaylist 2 igmp://225.2.2.2:1002 /s
```

Playlist is manipulation as parameters. And channel number is a number (0~999).

4 StbMonitor commands

4.1 Parameter setting commands

4.1.1 Parameters

param_version: parameter version, read only

hardware_version: hardware version, read only

loader_version: loader version, read only

boot_version: kernel version, read only

app_version: app version, read only

font_version: font version, read only

brightness: brightness value

saturation: saturation value

contrast: contrast value

standard: video format

dhcp: network access mode, 0: static IP; 1: parameters get from DHCP server

home_page : default homepage

help_page : default help page

setting_page : default setting page

menu_page : default menu page

lan_dns : DNS address in LAN

lan_gateway : gateway address in LAN

lan_ip : STB IP address in LAN

lan_mask : subnet mask address in LAN

maxvol : maximal volume

minvol : minimal volume

volume : current volume

ntpserver : NTP server address

domain : domain name

pppoe_dns : DNS address

pppoe_gateway : gateway address

pppoe_ip : STB IP address

pppoe_mask : subnet mask address

pppoe_pswd : user password

pppoe_user : user name

timezone : time zone

ttl : parameter about network, which determine how long the life of data packet. Default is 128.

upgrade_url : the url of unicast upgrading

mac : mac address.

serial : serial number, exclusive identifier

browser_region : the region of browser. format: left,top,width,height. eg: 0,0,640,480.

fileserverip: ip address of FTP server.

fileserverport: port of FTP server.

fileserveruser: user name of FTP server.

fileserverpswd: user password of FTP server.

osd_width: OSD's width.

osd_height: OSD's height.

aspect: the ratio of screen width to height.[4:3 or 16:9]

4.1.2 SETPARA

Format: ip setpara paraname paravalue

Function: setting a parameter

Parameter: paraname : parameter name

paravalue : parameter value

Setting can be save later use command of SAVEPARA.

Some of the parameters are read only, the system will indicate these parameters are not configurable, e.g.:

Example: >172.168.10.201 SETPARA app_version xxx

4.1.3 GETPARA

Format: ip getpara [paraname]

Function: getting a parameter of a STB, transmitted by unicast

Parameter: paraname: name of parameter, default getting all parameter

Example: >172.168.10.201 GETPARA

C:\StbMonitor 172.168.10.201 GETPARA

4.1.4 SAVEPARA

Format: ip savepara

Function: save parameter setting, to be executed after SETPARA command

Parameter: none

Example: >172.168.10.201 SAVEPARA

C:\StbMonitor 172.168.10.201 SAVEPARA

4.1.5 UPGRADEPARA

Format: ip upgradepara file

Function: transmit edited parameter file (file format referencing attachment 1) from local PC to STB

Parameter: file: The parameter file on local PC

Example: >172.168.10.201 UPGRADEPARA d:\config.para

C:\StbMonitor 172.168.10.201 UPGRADEPARA d:\config.para

4.2 Upgrade commands

4.2.1 UPGRADELOADER

Format:

ip upgradeapp loaderfile

Function: Upgrade STB's loader by unicast.

Parameter:

loaderfile file on local PC

Examples: > 172.168.10.201 upgradeloader loader.bin.

C:\StbMonitor 172.168.10.201 upgradeloader loader.bin.

4.2.2 UPGRADEAPP

Format:

ip upgradeapp appfile [/f]

Function: transmit upgrade application files to STB, by unicast

Parameter:

srcfile file on local PC, app.ip

/f means enforce upgrade, without referencing the application version of STB

Example:>172.168.10.201 UPGRADEAPP app.ip

C:\StbMonitor 172.168.10.201 UPGRADEAPP app.ip

4.2.3 UPGRADEBOOT

Format:

ip upgradeboot bootfile

Function: transmit boot upgrade file to STB, by unicast

Parameter:

Bootfile file on local PC, boot.bin

Example:>172.168.10.201 UPGRADEBOOT boot.bin

C:\StbMonitor 172.168.10.201 UPGRADEBOOT boot.bin

4.2.4 UPGRADELOGO

Format:

ip upgradeapp logfile

Function: Upgrade STB's logo by unicast

Parameter:

Logofile logfile on local PC

Example:>172.168.10.201 upgradelogo logo.bin

C:\StbMonitor 172.168.10.201 upgradelogo logo.bin

4.2.5 UPGRADEFONT

Format:

ip upgradefont fontfile

Function: Upgrade STB's font by unicast

Parameter:

fontfile fontfile on local PC

Example :>172.168.10.201 upgradefont font.lib

C:\StbMonitor 172.168.10.201 upgradefont font.lib

4.3 Other commands

4.3.1 SHOWMSG

Format:

ip showmsg message time

Function: show message on the TV for specify seconds.

Parameter:

message test wanted to show.

time continuance time to show, seconds

Example:>172.168.10.201 showmsg hello 50

C:\StbMonitor 172.168.10.201 showmsg hello 50

4.3.2 STATUS

Format:

ip status

Function: getting STB operation statue

Parameter: none

Example: >172.168.10.201 STATUS

C:\StbMonitor 172.168.10.201 STATUS

4.3.3 REBOOT

Format:

ip reboot

Function: reboot STB

Parameter: none

Respond : none

Example: >172.168.10.201 reboot

C:\StbMonitor 172.168.10.201 reboot

4.3.4 OPENURL

Format:

ip openurl url

Function: open a url

Parameter: the string of url

Example:> 172.168.10.201 openurl http://www.google.com

C:\StbMonitor 172.168.10.201 openurl http://www.google.com

4.3.5 VER

Format: ver

Function: show version number of StbMonitor

Parameter: None

Example:> VER

C:\StbMonitor VER

4.3.6 CLEAR

Format:

clear

Function: clear command display

Parameter: none

Example: > CLEAR

C:\StbMonitor CLEAR

4.3.7 HELP

Format:

help [cmd]

Function: show the information about help

Parameter:

cmd key word of command, default: show all commands

Example: > help setpara

Appendix A. Possible TV standards

"CVT_640x480x50",
"CVT_640x480x60",
"CVT_640x480x75",
"CVT_640x480x85",
"CVT_800x600x50",
"CVT_800x600x60",
"CVT_800x600x75",
"CVT_800x600x85",
"CVT_1024x768x50",
"CVT_1024x768x60",
"CVT_1024x768x75",
"CVT_1024x768x85",
"CVT_1152x864x50",
"CVT_1152x864x60",
"CVT_1152x864x75",
"CVT_1152x864x85",
"CVT_1280x960x50",
"CVT_1280x960x60",
"CVT_1280x960x75",
"CVT_1280x960x85",
"CVT_1280x1024x50",
"CVT_1280x1024x60",
"CVT_1280x1024x75",
"CVT_1280x1024x85",
"CVT_1600x1200x50",
"CVT_1600x1200x60",

"HDMI_640x480p59",
"HDMI_640x480p60",
"HDMI_480p59",
"HDMI_480p60",
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"HDMI_720p60",
"HDMI_1080i59",
"HDMI_1080i60",
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"HDMI_1080p60",
"HDMI_576p50",
"HDMI_720p50",
"HDMI_1080i50",
"HDMI_576i50",
"HDMI_720x288p50",
"HDMI_2880x576i50",
"HDMI_2880x288p50",
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"HDMI_1080p25",

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"720p25",
"720p24",
"720p23",
"ITU_Bt656_525",
"NTSC_M_Japan",
"NTSC_M",
"PAL_60",
"PAL_M",
"480p59",
"NTSC_M_Japan_714",
"NTSC_M_714",
"PAL_60_714",
"PAL_M_714",
"480p59_714",
"ITU_Bt656_625",
"PAL_BG",
"576p50",
"PAL_BG_702",
"576p50_702",
"VESA_640x350x85",

"VESA_640x400x85",
"VESA_720x400x85",
"VESA_640x480x60",
"VESA_640x480x72",
"VESA_640x480x75",
"VESA_640x480x85",
"VESA_848x480x60",
"VESA_800x600x56",
"VESA_800x600x60",
"VESA_800x600x72",
"VESA_800x600x75",
"VESA_800x600x85",
"VESA_1024x768x43",
"VESA_1024x768x60",
"VESA_1024x768x70",
"VESA_1024x768x75",
"VESA_1024x768x85",
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"VESA_1280x768x60RB",
"VESA_1280x768x60",
"VESA_1280x768x75",
"VESA_1280x768x85",
"VESA_1280x960x60",
"VESA_1280x960x85",
"VESA_1280x1024x60",
"VESA_1280x1024x75",
"VESA_1280x1024x85",
"VESA_1360x768x60",
"VESA_1400x1050x60RB",
"VESA_1400x1050x60",
"VESA_1400x1050x75",
"VESA_1400x1050x85",

"VESA_1600x1200x60",
"VESA_1920x1200x60RB",
"VESA_1920x1200x60",
"VESA_640x480i30",
"VESA_640x480i60",